PATENT ABSTRACTS OF JAPAN

(11)Publication number:

07-328814

(43)Date of publication of application: 19.12.1995

(51)Int.Cl.

B23B 27/14 C04B 35/56 C04B 35/583

(21)Application number: 06-147189

(22)Date of filing:

06.06.1994

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(54) SOLID CRYSTALLINE BORON NITRIDE RADICAL ULTRA HIGH PRESSURE SINTERED MATERIAL CUTTING TOOL SUPERIOR IN ABRASION RESISTANCE

(57)Abstract:

PURPOSE: To provide a solid crystalline boron nitride radical ultra high pressure sintering material cutting tool exhibiting superior abrasion resistance in the case of high speed cutting. CONSTITUTION: A solid crystalline boron nitride radical ultra high pressure sintered material cutting tool includes Ti carbide/nitride 20-40% in vol.% consisting of one or two or more kinds out of Ti carbide, nitride, and carbide nitride, tungsten carbide 0.1-2%, aluminum nitride 1-5%, titanium boride 3-7%, and aluminum oxide 5-15%. And the rest consists of solid crystalline baron nitride radical ultra high pressure sintered material whose composition consists of solid crystalline boron nitride and unavoidable impurity and combined phase has such a structure as dispersedly distributing tungsten carbide, aluminum nitride, titanium boride, and aluminum oxide having grain sizes of 0.1× or less respectively on Ti carbide nitride base.

LEGAL STATUS

[Date of request for examination]

31.03.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application

converted registration]

[Date of final disposal for application]

[Patent number]

3257255

[Date of registration]

07.12.2001

[Number of appeal against examiner's decision of rejection1

Date of requesting appeal against examiner's

decision of rejection] Date of extinction of right